

WWW.CVIB.COM.BR

### VIB OUTLOOK 2022

(11 DE NOVEMBRO DE 2021)

"FUNDAMENTOS DE EMPRESAS AMERICANAS PÓS-COVID-19"

DANILO SANTIAGO | RIM

O material e conteúdo divulgados pela Value Investing Brasil C. T. Ltda. têm natureza meramente informativa (com objetivo de educar a comunidade brasileira de investidores com foco em valor), não devem ser considerados oferta de venda de qualquer valor mobiliário, fundo de investimento, título e/ou ativo (não constituindo o documento previsto na Instrução CVM 409 e alterações seguintes nem o prospecto previsto no Código ANBIMA de Regulação e Melhores Práticas para os fundos de investimento) e não caracterizam qualquer atividade de consultoria de valores mobiliários por parte da Value Investing Brasil C. T. Ltda., de seus executivos e/ou de outros profissionais que tenham seu trabalho reproduzido ou que sejam citados. A Value Investing Brasil C. T. Ltda. não se responsabiliza por informações incorretas que sejam reproduzidas. Decisões de investimento tomadas com base nas informações contidas no material e conteúdo aqui descritos são de responsabilidade exclusiva do investidor. A Value Investing Brasil C. T. Ltda. não comercializa nem distribui quotas de fundos de investimento ou qualquer outro ativo financeiro. Ações e fundos (e outros valores mobiliários como derivativos etc. e outros ativos como commodities etc.) são investimentos de altíssimo risco, podem resultar em significativas perdas patrimoniais para seus investidores e seu desempenho passado não garante resultados futuros.

#### CONFIDENTIAL



### VIB OUTLOOK 2022: American companies' fundamentals post COVID-19

November 2021

#### **CONTACT INFORMATION:**

Danilo Ruas Santiagods@rational-im.comFounding Partner+1 (646) 652 6284https://www.linkedin.com/in/danilosantiago

Version 1.1

### DISCLAIMER

The information contained herein regarding **Rational Investment Methodology ("RIM")** is confidential and proprietary and intended only for use by the recipient. The information contained herein is not complete and does not include certain material information about essential disclosures and risk factors associated with an investment in the strategies described on this document and is subject to change without notice.

This document is not intended to be, nor should it be construed or used as, an offer to sell, or a solicitation of any offer to invest on or buy shares or limited partnership interests in any funds or accounts managed by RIM. If any such offer is made, it shall be pursuant to a definitive "Confidential Private Placement Memorandum" or "Investment Service Agreement" prepared by or on behalf of a specific fund or managed account that contains detailed information concerning the investment terms, and the risks, fees, and expenses associated with an investment in that fund or managed account.

Opinions expressed are current opinions as of the date appearing in this material only. While the data contained herein has been prepared from information that RIM believes to be reliable, RIM does not warrant the accuracy or completeness of such information.

#### INVESTMENT METHODOLOGY PHILOSOPHY

"...he sailed past the island of the Sirens, whose song draws men to their death: Odysseus\* bid the crew to cover their ears, while he himself was tied to the mast, so that he might listen, yet not be seduced."

Homer, The Odyssey, book XII

Like Odysseus, RIM seeks to avoid the siren's call, which in the stock market is represented by the cycles of fear and greed that leads to constant mispricing of most stocks

### **RIM IS A FUNDAMENTAL-QUANT APPROACH TO US EQUITIES INVESTING**

#### Individual stock selection – the FUNDAMENTAL part of the process:

- Focuses on a quasi-static group of <u>65 publicly traded, liquid US stocks</u> most of these companies, defined as RIM's Circle of Competence [CofC], have been <u>followed for more than a decade</u>
- Employs extensive industry research and analysis, building highly detailed proprietary discounted-dividend models
- Uses these proprietary models to determine "fair values" of companies based on different scenarios

#### **Portfolio Construction - the QUANTITATIVE part of the process:**

- Constructs "rules-based" portfolios (long-short, long-only or long-aggressive) with a company-specific margin of safety relative to "fair value", using its proprietary Odysseus Portfolio Construction Tool, developed in-house in Python, a contemporary programing language
- Replicates the selected model portfolio into clients' accounts, using Interactive Brokers' platform, adjusting the number of shares in each client's portfolio in a *pari-passu* manner

### FUNDAMENTAL ANALYSIS WORKS BECAUSE OF THE MARKET'S FOCUS ON SHORT TERM EARNINGS

#### Westrock Company [WRK] – paper packaging solutions

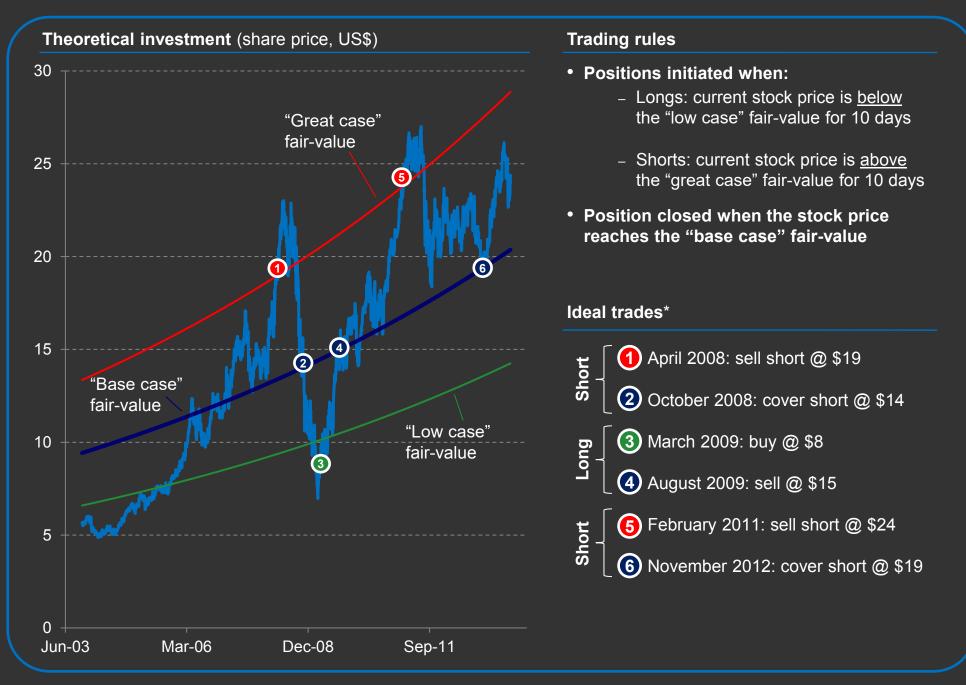


#### Tempur Sealy International [TPX] – matresses manufacturing and retailing Analysts expectation vs. share price



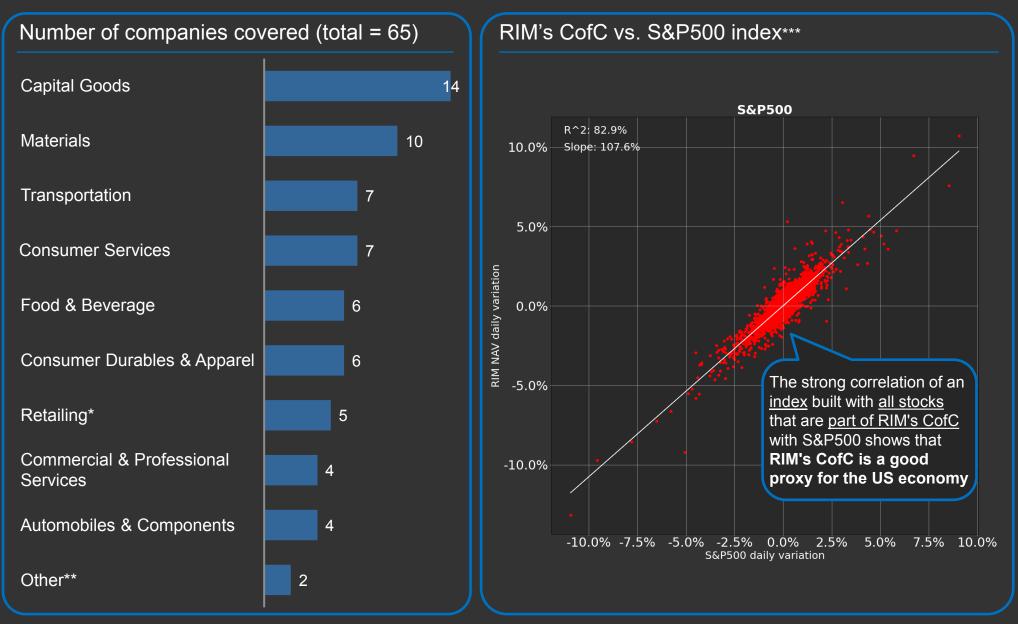
- The market is not a random walk - it follows EPS (Earnings Per Share) very closely: if earnings expectations are low, share price is low; if earnings expectations are high, share price is high
- This short-term approach overemphasizes the current stage of macroeconomic cycles, industry cycles or temporary head/tail winds affecting companies' earnings
- An investor that specializes in forecasting mid/longterm EPS of a limited number of companies has a better chance to be positioned correctly on the long or short side of an equity investment

### PORTFOLIO CONSTRUCTION RULES: TRIGGERS



\* The "ideal trades" included above represent only the entry/exit points of a theoretical long or short position; while a position is open, usually a series of adjustments are performed – i.e. the size of the initial position varies, depending on a series of portfolio rules (some of those rules are described on the next page); because of these adjustments, actual returns might be significantly lower/higher than the "ideal trades" entry/exit points might indicate.

### RIM'S CIRCLE OF COMPETENCE (CofC) REPLICATES THE U.S. ECONOMY

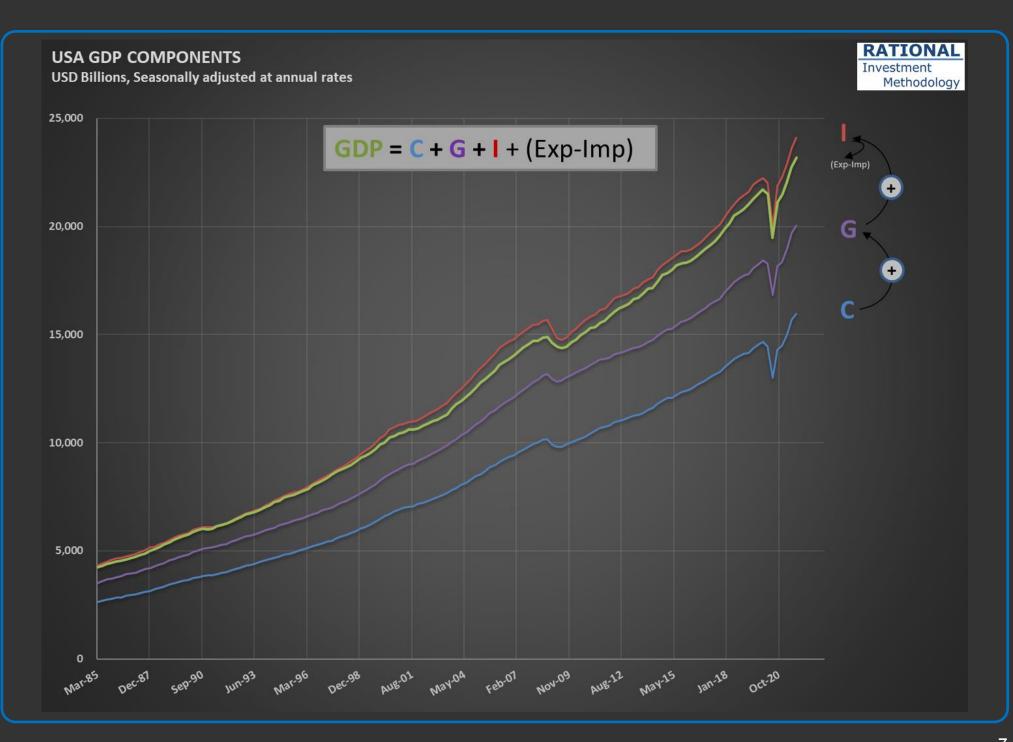


\* All hardline retailers - Home Depot, Lowe's, Advance Auto Parts, O'Reilly Automotive and Best-Buy

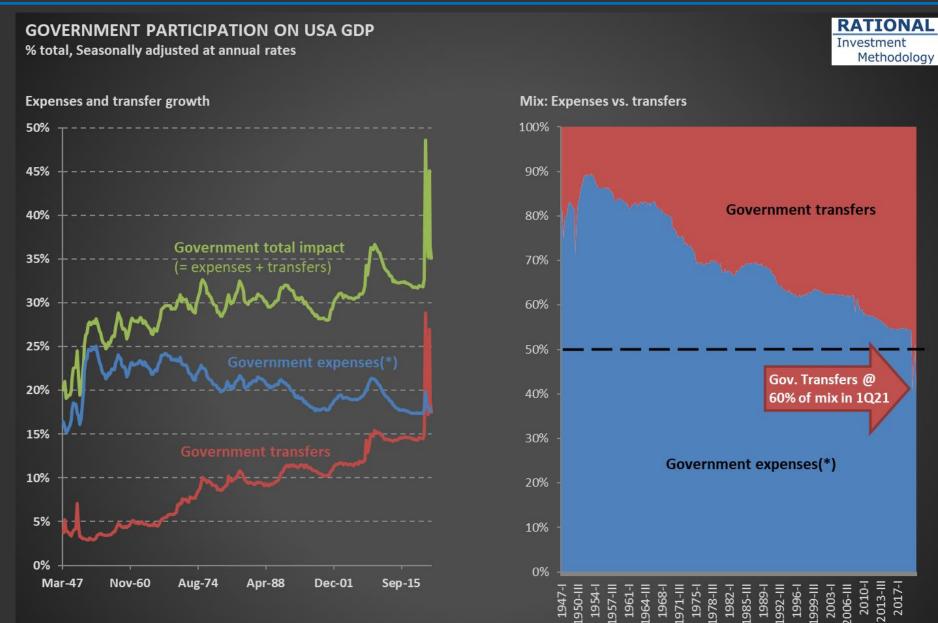
\*\* Other includes a Food and Staples Retailer and a Media Infrastructure company

\*\*\* Market index information shown herein, such as that of the S&P 500 Stock Index, is included to show relative market performance for the periods indicated and not as standards of comparison, since these are unmanaged, broadly based indices which differ in numerous respects from RIM's portfolio composition. The series with the title "RIM NAV" represents an equal allocation among all the companies on RIM's CofC (i.e., ~1/60th of a simulated amount of resources) at the beginning of the comparison period, with daily rebalancing during the period shown above. Market index and individual securities information was compiled from sources that RIM believes to be reliable. No representation or guarantee is made hereby with respect to the accuracy or completeness of such data.

### GDP IS NOW HIGHER THAN PRE-CRISIS LEVELS, BUT...

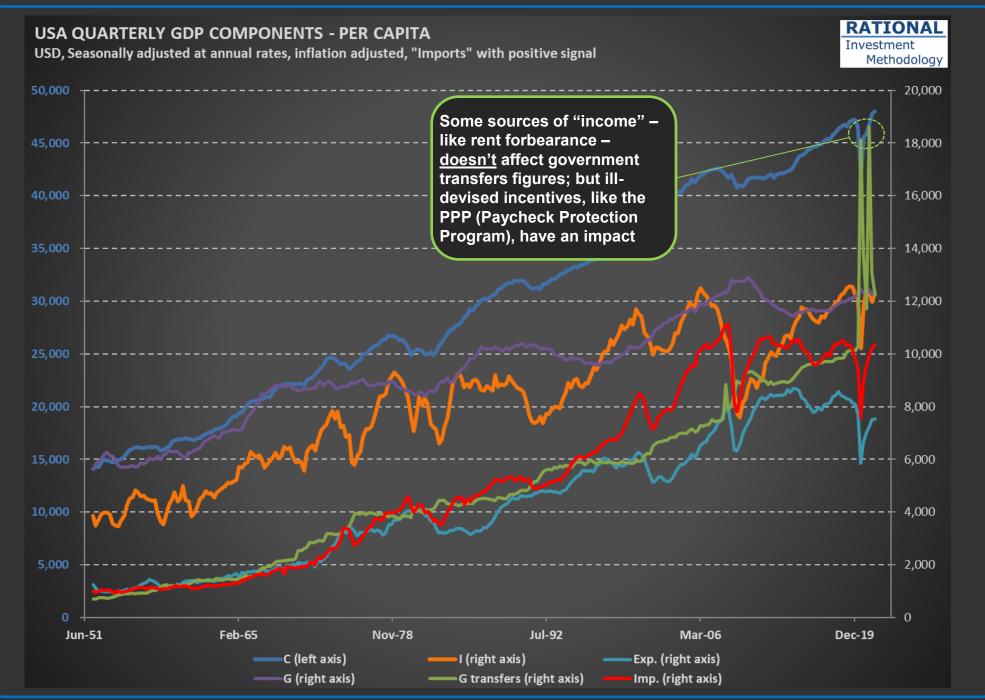


### ...GOVERNMENT INTERVENTION REACHED NEW RECORD LEVELS NOT SEEN SINCE THE END OF WORLD WAR II

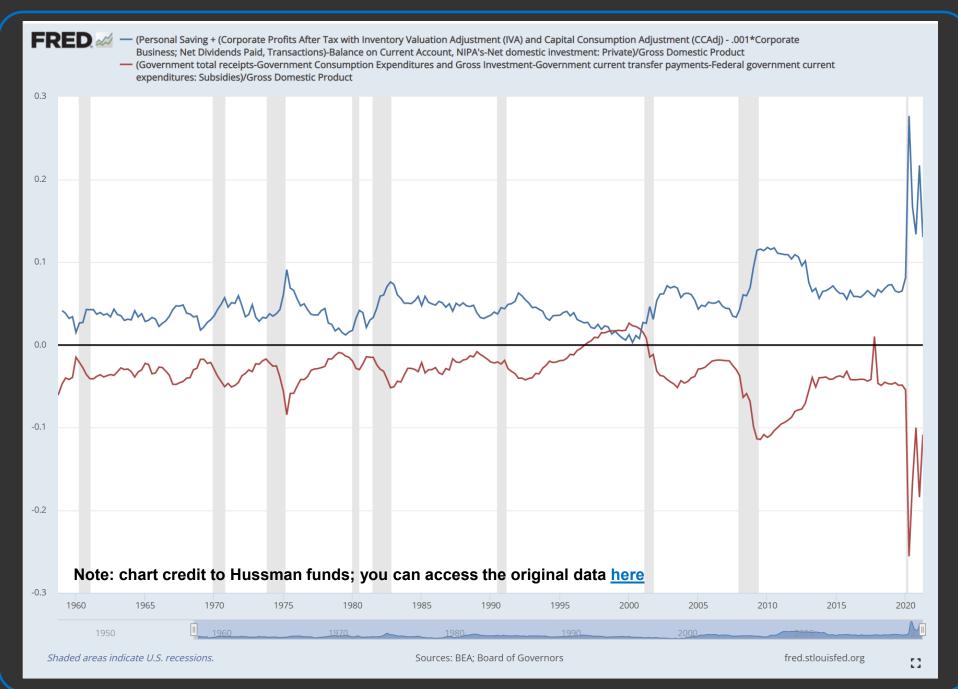


(\*) Doesn't include "transfers" like social security, medicare and medicaid; Transfers are not "expenses" nor "investments" conducted by the government (they are realocations of money/resources, done by the government nevertheless, between different income classes and/or age groups in the country)

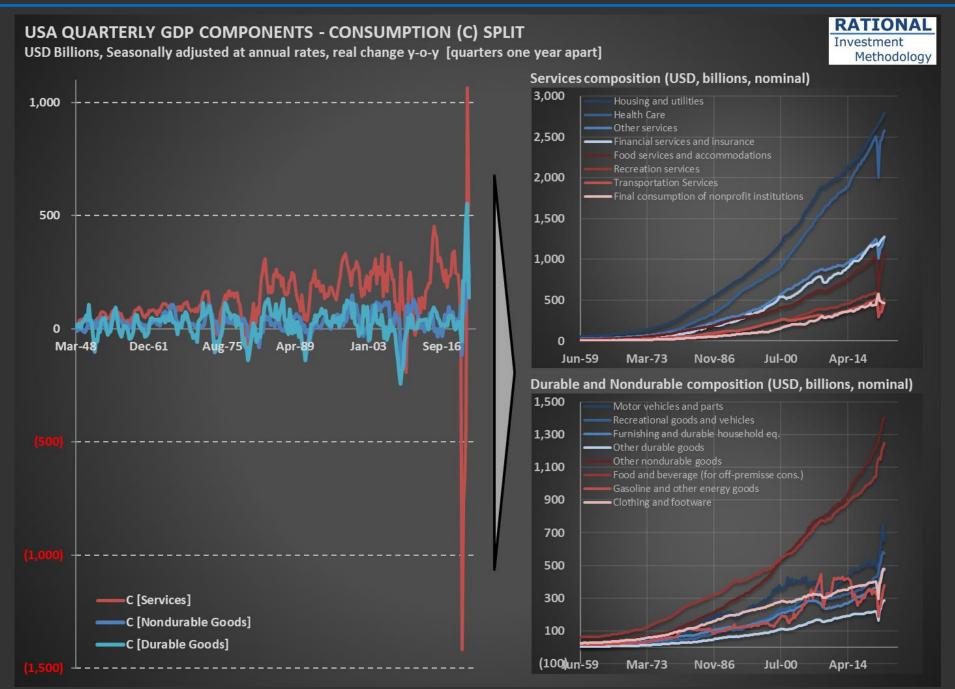
### TRANSFERS – ON A PER CAPITA BASIS – ALMOST DOUBLED DURING THE 2Q OF 2020 AND THE 1Q OF 2021



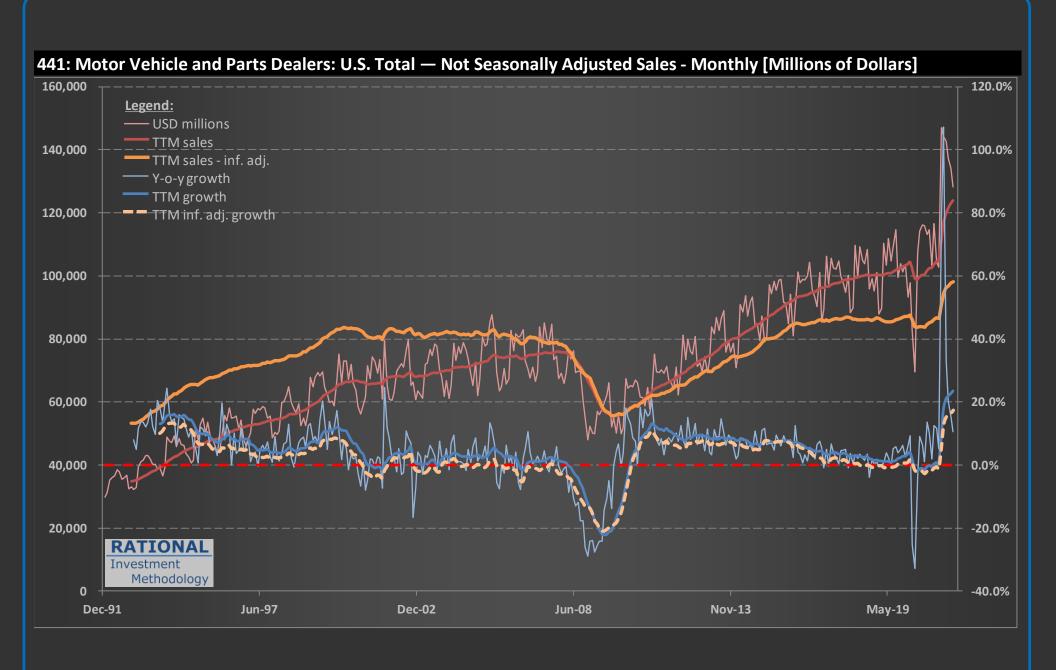
### GOVERNMENT DEFICITS BECOMES A COMBINATION OF (i) PERSONAL SAVINGS, (ii) RETAINED CORPORATE PROFITS AND (iii) TRADE DEFICITS



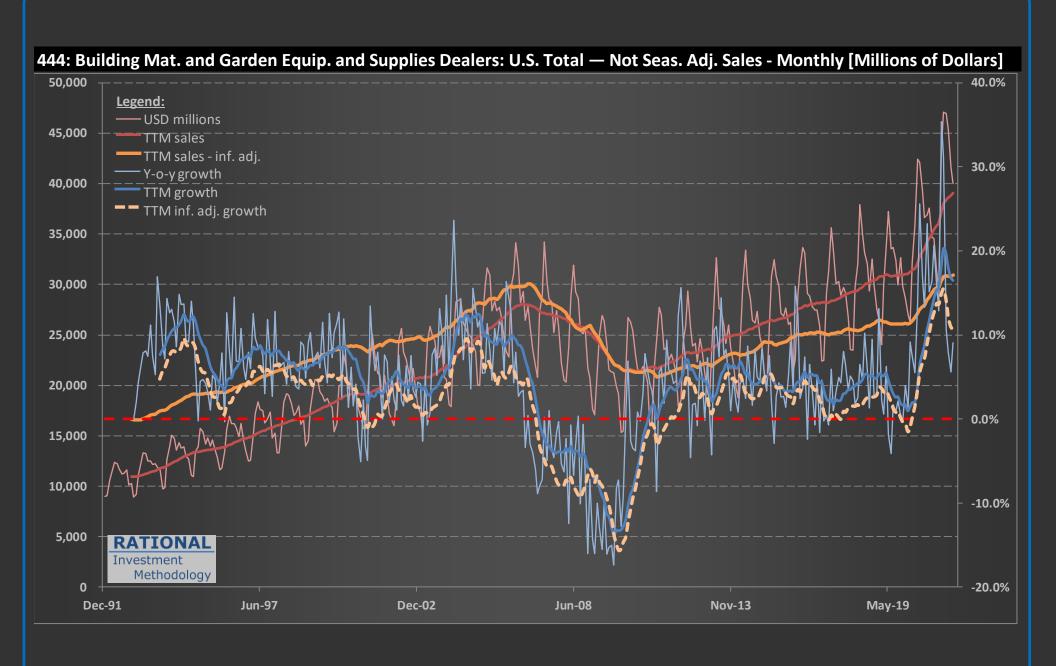
# THE NEW BONANZA IN SAVING LEAD TO AN INCREASE IN CONSUMPTION; PAY SPECIAL ATTENTION TO "MOTOR VEHICLES AND PARTS"



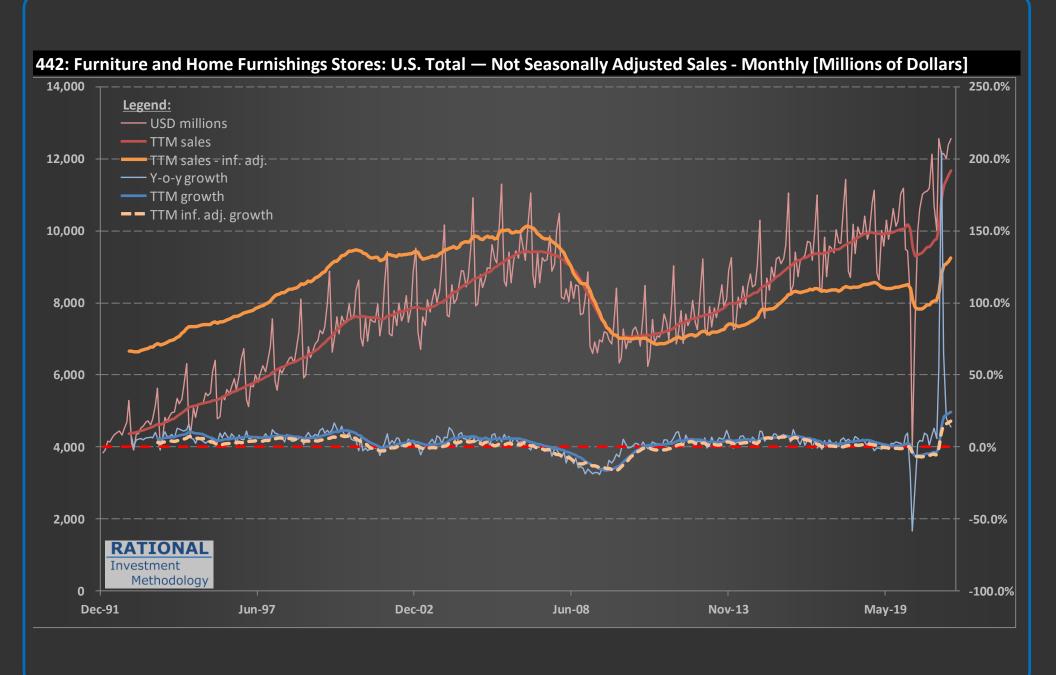
### THE US CENSUS BUREAU CAPTURES DETAILED INFORMATION ON SALES; CASE IN POINT ARE MOTOR VEHICLES SALES



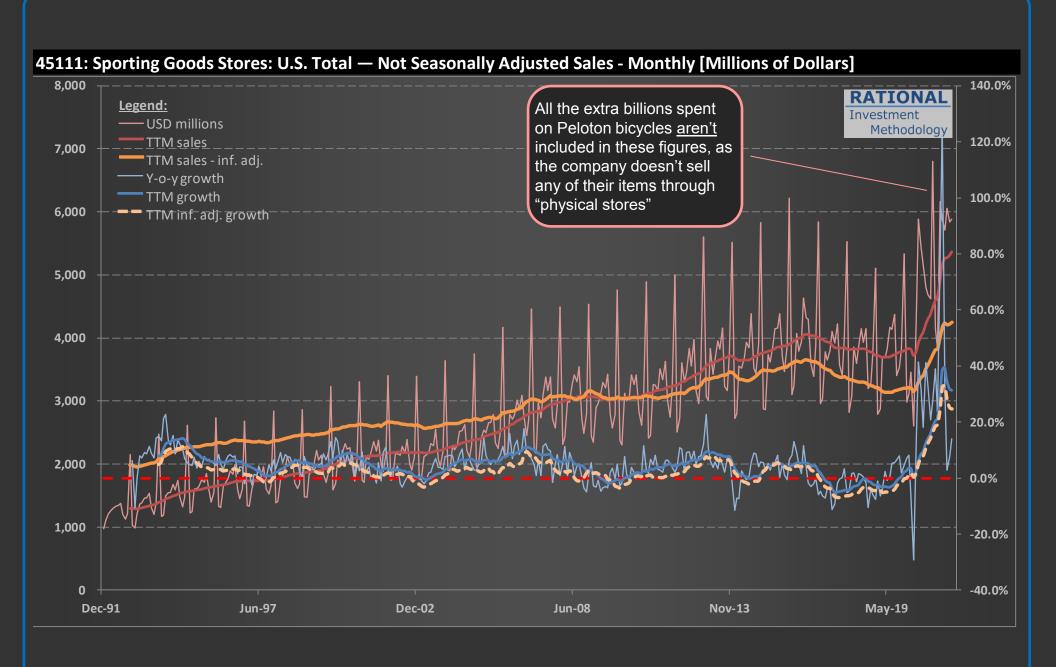
## IF YOU GET STUCK AT HOME, WORKING AT YOUR HOUSE AND GARDEN MIGHT BE ONE OF THE FEW OPTIONS LEFT



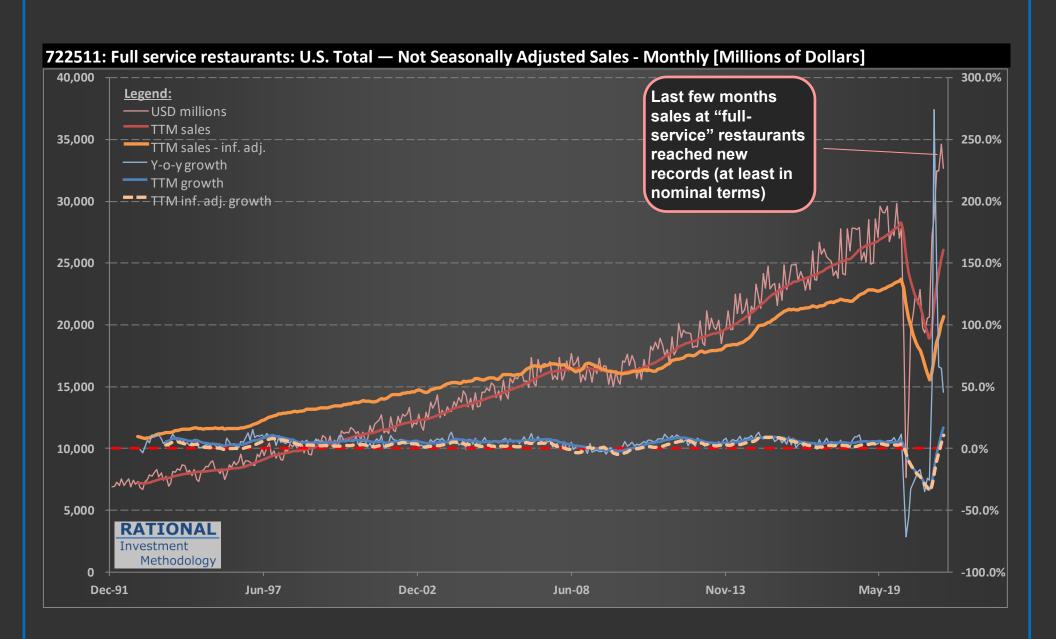
### YOU MIGHT ALSO WANT TO FINALLY CHANGE THAT OLD SOFA...



### ... AND TRANSFORM YOUR BASEMENT IN A FULL GYM



# CONSUMERS, WHO ARE FEELING WEALTHY ARE – ON TOP OF BUYING A LOT OF DISCRETIONARY ITEMS – GOING BACK TO THEIR FAVORITE RESTAURANT TOO

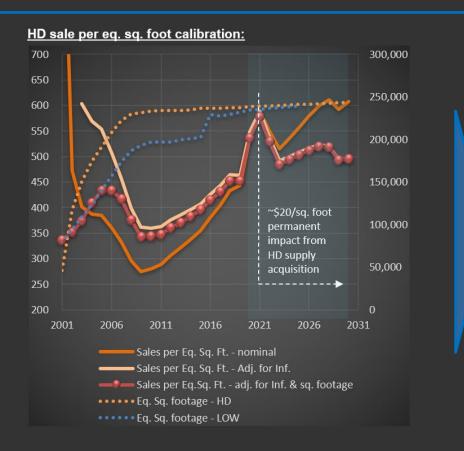


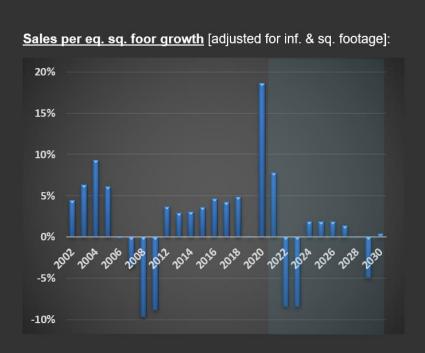
### STIMULUS IMPACTS CAN ALSO BE SEEING AT THE COMPANY LEVEL: THOR INDUSTRIES



- Thro Industries is the biggest manufacturer of RVs (Recreational Vehicles) in the USA
- During 2021, sales are expected to reach record levels – on a per capita basis. The current unit sales pattern are in stark contrast with what we saw during the Great Financial Crisis in 2008-2009: it took years for the industry to recover
- Therefore, quarterly units' shipments for Thor (in the USA) has matched records (achieved during the fracking oil-boom, when workers in the filed were buying thousands of RVs to live in, due to lack of accommodations around oil wells)
- On a base case at RIM, a "reversion to the mean" in sales is expected

#### STIMULUS IMPACTS CAN ALSO BE SEEING AT THE COMPANY LEVEL: HOME DEPOT

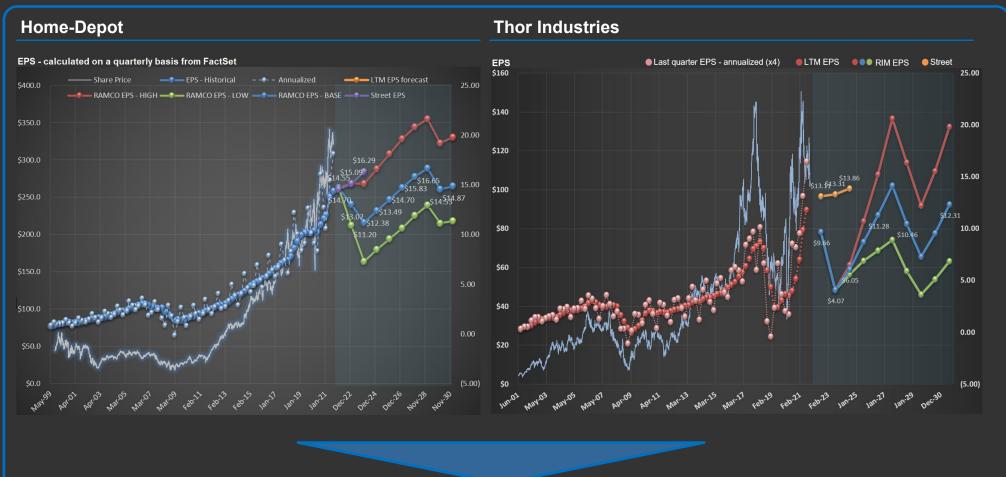






- Sales at Home-Depot, the largest retailer of construction material in the USA, saw the biggest increase in its history during 2020, towering the best years throughout the housing bubble of the mid-2000s
- Even considering permanent impact from acquisitions, sales would need to fall substantially to account for a normalization in sales per square foot

### NORMALIZATION OF EARNINGS CAL LEAD TO HUGE DISCREPANCIES IN EARNINGS VS. WHAT WALLS STREET ANALYSTS ARE FORECASTING TODAY



- At RIM, valuations are built assuming various scenarios for each company that are part of our Circle of Competence (CofC)
- An exercise of sales and margins normalization leads to EPS figures, in various scenarios, that are very different from what the average sell-side analyst from Wall Street is forecasting
- If such delta were to become reality, stock price reactions could be severe

### CONTRARIAN VIEWS ARE ALWAYS CRITICIZED: EXAMPLE FROM THE GREAT FINANCIAL CRISIS



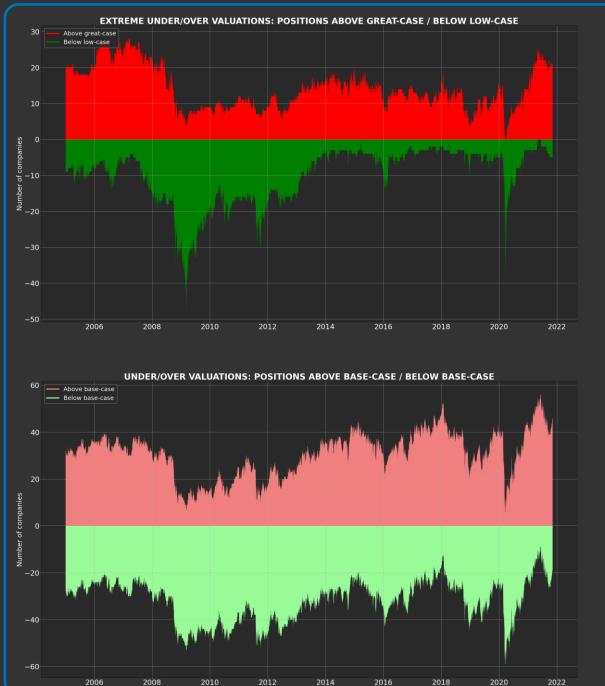
# A SIGNIFICANT MARKET CORRECTION IS NECESSARY TO OFFER SUFFICIENT OPPORTUNITIES FOR OF A LONG-BIASED PORTFOLIO



- Overall valuation levels are elevated during 2021, despite unaltered (or diminished) economic prospects for most companies after a global pandemic
- From todays' price levels, a correction to achieve a typical undervalued market is significant

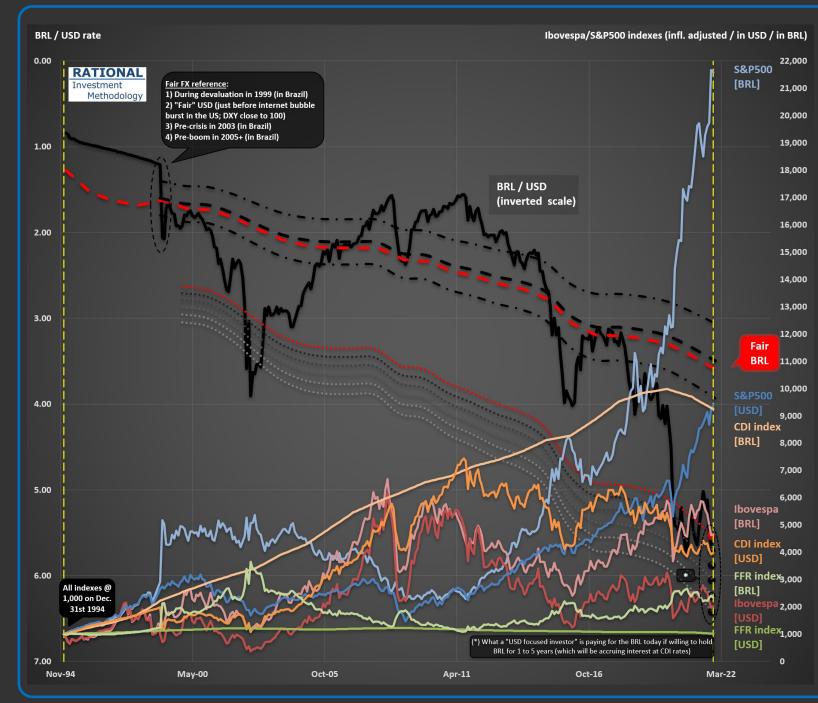
   investors must be wise when considering how much directional risk to incur in the US
   equity market

# ABOVE BASE-CASE NAMES – THAT ARE PART OF RIM'S CofC – ARE AT ELEVATED LEVELS



- The chart at the bottom shows – since 2005 – the number of companies that are above (pink area) and below (light green area) their respective <u>base-case</u> fairvalues (it is the equivalent of a daily count of the green/red bars on the histogram on the previous page)
- The chart at the top reflects the more extreme cases. The red area shows how many companies are above their <u>great-case</u> fair-value. The green area shows the ones below their <u>low-case</u> fairvalue

### WHEN ALLOCATING TO A FOREIGN ASSET, THE IMPACT OF BOTH (i) INDEX VALUATION LEVELS AND (ii) CURRENCY CAN BE EXTREME



From the perspective of a Brazilian allocator, that has the BRL as its reference currency, broad US equity indexes (like the S&P500) might be at the biggest bubble ever witnessed on this asset class

### WHAT A NON-PASSIVE INVESTMENT STRATEGY, VALUE-CONSCIOUS HEDGE EQUITY, LOOKS LIKE: RIM'S LONG-SHORT CONSTRUCT

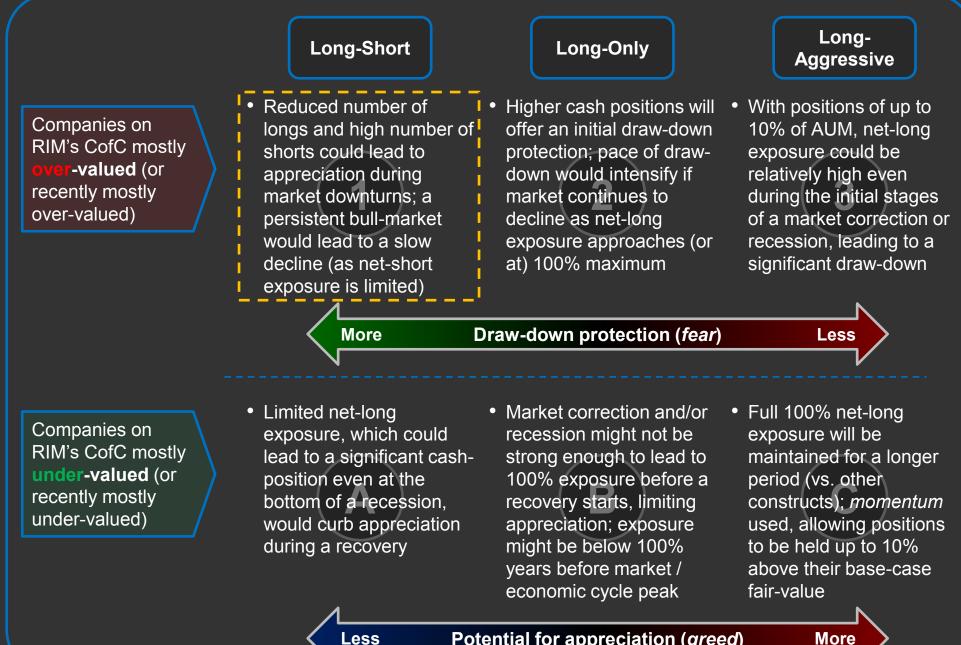




"If you ask 'what alternative do I have to zero-interest cash?' my answer is this: I expect that bonds and lowly, dismal T-bills will likely outperform stocks over the coming 10-20 years, and that's a shame all around. I expect that the best refuge as the bubble collapses will be non-passive investment strategies: valueconscious hedged equity; fullcycle disciplines that have the ability to respond to changing market conditions; possibly managed futures on the commodity side. None of these are on anyone's minds here. My impression is that flexible, hedged strategies will be important, because the prospective returns for passive approaches are likely to be worse than zero."

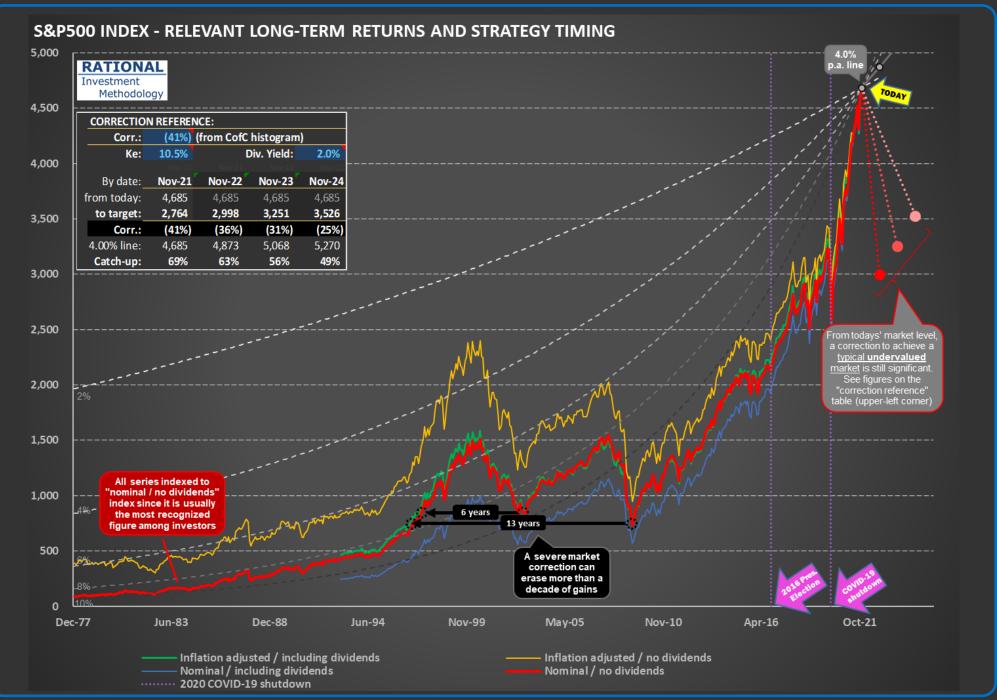
> From Hussman funds memo on November 9th, 2021

### A SPECIFIC PORTFOLIO CONSTRUCT SHOULD BE USED DEPENDING ON (i) RIM'S CofC VALUATION LEVELS AND (ii) RISK-SEEKING INCLINATION OF EACH INVESTOR



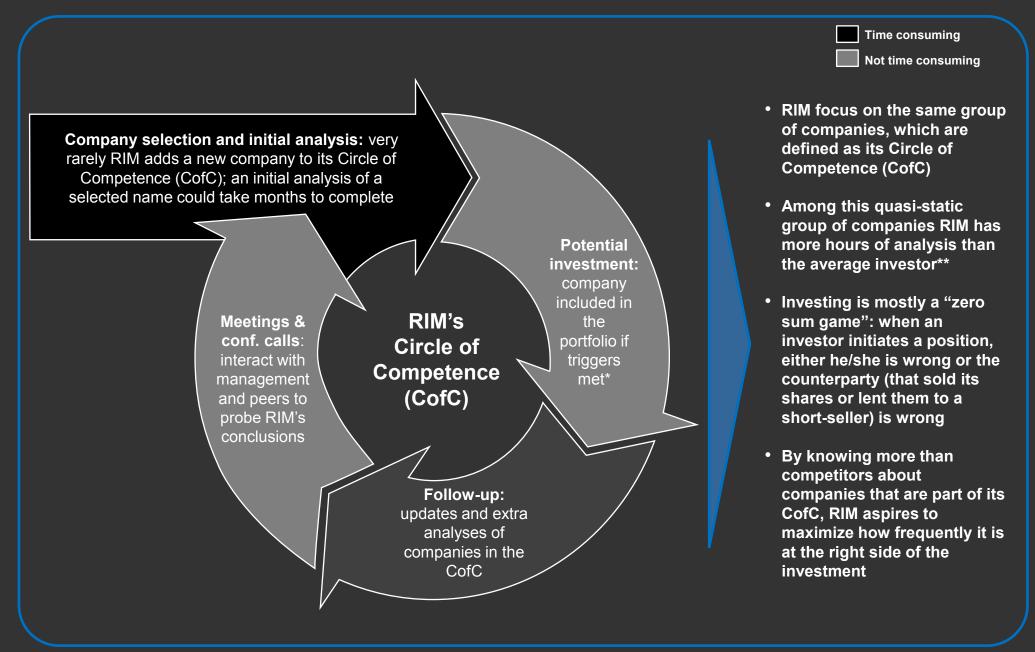
#### Potential for appreciation (greed)

## IN CASE YOU ARE WORRIED ABOUT BEING RISK-CONSCIOUS TOO EARLY: A SEVERE MARKET CORRECTION CAN ERASE MORE THAN A DECADE OF GAINS



# APPENDIX

### COMPETITIVE ADVANTAGE: THE CIRCULARITY OF RIM'S INVESTMENT METHODOLOGY; NOT A FILTER/FUNNEL PROCESS



<sup>\*</sup> See pages 7 and 8 for a detailed view on RIM's portfolio buildup methodology

<sup>\*\*</sup> This statement comes from the fact that the investment process of many of RIM's competitors consists of PMs and analysts constantly searching for "new ideas", which implies dedicating a significant amount of time to "screening". Therefore, competitors will have less hours of analysis, than RIM, regarding the business(es) of a company that is part of RIM's CofC

## SELECTED EXAMPLES OF QUANTITATIVE RISK MANAGEMENT RULES: LONG-SHORT CONSTRUCT

#### Rules

- No individual long position should exceed 5% at any time. No individual short position should exceed 3% at any time\*
- New long positions are the smaller of (i) 5% or (ii) 1 divided by the number of longs\*\*. New short positions are the smaller of (i) 3% or (ii) 1 divided by the number of shorts
- Maximum gross long of 120%; maximum gross short of 70%; maximum net long of 60%; maximum net short of 20%\*
- Net exposure will fluctuate within the above constraints based on the under and over-valuation of stocks that are part of the firm's knowledge base
- Position size is increased if there is space in the net/gross long/short limits – "size push"
- Long positions target allocations are not increased if the stock price falls after a position is initiated; short positions target allocations are not increased if the stock rises after initiation

#### **Benefits**

- Limits exposure to any individual company. Too much exposure to a single name would bring a "gambling" aspect to the portfolio
- Avoids Portfolio Manager's unjustified favoritism / greed or excessive fear of losses
- Helps Portfolio Manager to maintain focus on fundamental analysis
- Avoids margin calls and potential forced sells/buys at the worst possible time
- Limits volatility to acceptable levels for most investors
- Directional exposure should increase absolute return over time – net long at the end of economic downturns; net short at the end of economic booms
- Maximizes exposure (and returns) as long as individual position sizes remain under specified limits
- Companies have strong "operational momentum" which impacts EPS and, therefore, prices. "Doubling down" means more money on names that will likely take more time to become profitable to the detriment of allocation to expected better performers\*\*\*

\*\* For example, for a portfolio that has 29 names long, a new long position would be 1/30th (or 3.33%) of the portfolio value

<sup>\*</sup> To avoid excessive trading costs RIM might elect to allow a position or the portfolio to be a few basis points above the set limit. At the end of the month (or when the Portfolio Manager finds it necessary) the portfolio is adjusted to perfectly match the "ideal portfolio"

<sup>\*\*\*</sup> RIM's simulation shows that when an option to "increase position with more upside" is turned on, performance decreases and volatility increases, for most periods

### LONG-SHORT CONSTRUCT SIMULATION







Results are from <u>simulation(\*)</u> using the Odysseus Portfolio Construction Tool

- There is a reason why long-short strategies where conceptualized: they usually avoid big draw-downs, which are especially damaging for pension plans/endowments and foundations, that have regular/mandatory uses of resources
- The difference in volatility between RIM's long-short construct and broad indexes, during a market correction in early 2020, is an excellent example of the extra protection offered by the strategy
- A long-short strategy could also help family-offices protect their wealth during a crisis. Preserved resources could subsequently be deployed towards private investments when asset prices, in general, become more attractive
- Long-short strategies performance could be substantially better if interest rates stop being repressed by the Fed, as cash carried on the long-short account would be justly rewarded

(\*) charts purposely from a simulation (vs. actuals) to clearly show the impact of selected portfolio construction adjustments; simulated performance shown should not be seeing as an indicative of future performance

### LONG-ONLY CONSTRUCT SIMULATION





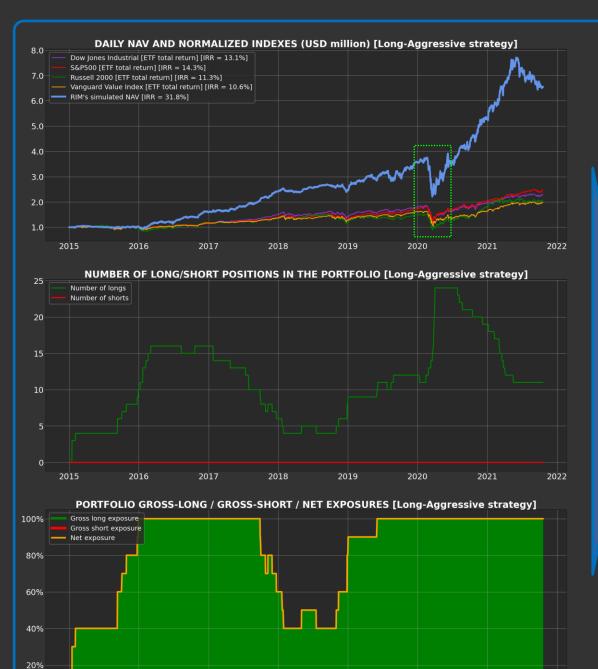


Results are from simulation(\*) using the Odysseus Portfolio Construction Tool

- Only two changes on RIM's risk management rules (vs. the long-short construct) leads to a long-only portfolio:
  - ✓ No shorts✓ Maximum 100% net-long
- Avoiding shorts, but still being riskconscious and therefore carrying a high cash-balance due to the lack of cheaply priced stocks, could plausibly deliver a comparable performance with some indexes, even during a bull market
- The performance might form a plateau as the strategy accumulates a high amount of cash. However, the cash accumulation could lead to lower volatility and drawdown vs. the one observed for broad indexes (e.g., as during the correction saw in early 2019). During the more severe correction of early 2020, even a substantial amount of cash couldn't prevent a significant draw-down

(\*) charts purposely from a simulation (vs. actuals) to clearly show the impact of selected portfolio construction adjustments; simulated performance shown should not be seeing as an indicative of future performance

### LONG-AGGRESSIVE CONSTRUCT SIMULATION



0%

2015

2016

2017

2018

2019

2020

2021

2022

Results are from <u>simulation(\*)</u> using the Odysseus Portfolio Construction Tool

- Four changes on RIM's risk management rules (vs. the long-short construct) leads to a long-aggressive portfolio:
  - No shorts
  - ✓ Maximum 100% net-long
  - Maximum positions of 10%
  - Only sell longs when share price 10% above base-case "fairvalue"
- The recent suppression of interest rates by the Fed - that punishes sensible longshort strategies - created a survivorship bias towards concentrated / less riskconscious portfolios constructs
- Investors must be careful not to take "an aggressive portfolio construct in a bull market" for a "distinctive ability to select good investments"
- A long-aggressive portfolio will suffer during a strong market decline. The market correction in early 2020 highlights this aspect of the long-aggressive construct

(\*) charts purposely from a simulation (vs. actuals) to clearly show the impact of selected portfolio construction adjustments; simulated performance shown should not be seeing as an indicative of future performance